

BID SOLICITATION NOTICE

TO RECEIVE A BID PACKAGE, BIDDERS MAY EITHER DOWNLOAD THE REQUEST FOR BIDS ("RFB") FROM THE AUTHORITY'S WEBSITE AT <http://www.state.nj.us/turnpike/purchasing.html> OR REQUEST A BID BY COMPLETING THIS FORM AND FAXING IT TO THE NUMBER STATED BELOW. FOR RECORD KEEPING PURPOSES, THE AUTHORITY REQUESTS THAT THE BIDDER COMPLETE THIS FORM AND RETURN IT TO THE PROCUREMENT AND MATERIALS MANAGEMENT DEPARTMENT, EVEN WHEN A BIDDER IS DOWNLOADING THE RFB. THIS IS THE ONLY NOTICE OF BIDDING FOR THE FOLLOWING GOODS.

THE NEW JERSEY TURNPIKE AUTHORITY PROCUREMENT AND MATERIALS MANAGEMENT DEPARTMENT

New Jersey Turnpike Administrative Offices
P.O. Box 5042, 581 Main Street
Woodbridge, New Jersey 07095-5042
Tel. - 732-750-5300 Ext. 8640 Fax - 732-750-5399

TITLE: **TELESCOPING AERIAL UNIT**
BID NO: **R-113092**
DUE DATE: **January 28, 2015**
TIME: **2:30 pm**

SUBMIT BIDS BEFORE THE DUE DATE AND TIME STATED ABOVE TO THE ABOVE ADDRESS

BIDDER INFORMATION (PLEASE PRINT)

NAME OF BIDDING ENTITY

ADDRESS

CITY, STATE AND ZIP CODE

E-MAIL ADDRESS

REPRESENTATIVE TO CONTACT-NAME & TITLE

TELEPHONE NO

FEDERAL TAX I.D. NO. or TAXPAYER I.D. NO

FAX NO

☐

WE HAVE DOWNLOADED THE BID FROM THE AUTHORITY WEBSITE

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FAX NO

_____ BUSINESS CORPORATION _____ PARTNERSHIP _____ INDIVIDUAL

_____ OTHER (SPECIFY) _____

SECTION I

A. INTRODUCTION

The New Jersey Turnpike Authority (the “Authority”) was created by an act of the New Jersey Legislature in 1948, known as the New Jersey Turnpike Authority Act (as amended and supplemented, “Act”). The Act authorizes the Authority to construct, maintain, repair, and operate the New Jersey Turnpike, to collect tolls, and to issue Turnpike Revenue Bonds or Notes, subject to the approval of the Governor, payable from tolls and other revenues of the Authority. On May 27, 2003, the Act was amended to empower the Turnpike to assume all powers, rights, obligations and duties of the New Jersey Highway Authority (the “Highway Authority”), which owned and operated the Garden State Parkway and PNC Bank Arts Center. On July 9, 2003, the Authority assumed all powers, rights, obligations and duties of the Highway Authority. The Authority currently operates both the Garden State Parkway (“GSP”) and the New Jersey Turnpike (“Turnpike”) (both roads are collectively referred to herein as the “Roadways”).

The Authority is governed by an eight member Board of Commissioners (“Board”). The Governor of New Jersey appoints each of its members and has the statutory authority to overturn an action of the Board by vetoing any Board action within 10 days of receiving the minutes of the meeting. The Board authorizes awards of all public contracts over \$35,000, except in cases where it has delegated authority to the Executive Director.

This bid solicitation is being conducted pursuant to the Authority’s enabling statute as found in N.J.S.A. 27.23-6.1 and Executive Order number 37 (Corzine 2006) and the regulations and policies of the Authority with regard to public bid procurement.

B. BIDDER GUIDELINES/CHECKLIST

BIDS THAT FAIL TO CONFORM TO THE FOLLOWING REQUIREMENTS MAY BE REJECTED:

1. The Request for Bids ("RFB"), including specifications and related bid documents ("Bids") must be received at or before the due date and time stated on the cover page at the following place: New Jersey Turnpike Authority, Administration Building, 581 Main Street, Woodbridge, New Jersey 07095. Late Bids will be returned unopened. Telephone or facsimile Bids will not be accepted.
2. The entity submitting a Bid ("Bidder") must provide one original and one copy of the Bid. The Bid must include all price information. Bid prices shall include delivery of all items F.O.B. destination or as otherwise provided. Price quotes must be firm through issuance of contract.
3. All Bid prices must be typed or written in ink. Quote the specified unit of measure. If bidding an alternate, provide detailed specifications.
4. All corrections, white-outs, erasures, re-striking of type, or other forms of alteration or the appearance of alteration, to unit and/or total prices must be initialed in ink by the Bidder.
5. The Bidder must attend the mandatory site inspection at the following date(s) and time(s) if applicable:
6. If checked this RFB requires the following mandatory document(s) or the Bid **will** be rejected:
 - (a) Bid Bond or Cashier's Check for 10% of the amount Bid or a Letter of Surety ☒
 - (b) Stockholder/Partnership Disclosure Statement ☒
7. See the Authority's Instruction to Bidders for a complete list of the Authority's standard contract Terms and Conditions, as well as required forms that must be included with the Bid (**ATTACHED**).

The following checked documents are required for this Bid. Failure to submit the required forms may result in the rejection of the Bid.

- (a) State of New Jersey Division of Revenue Business Registration Certificate ☒
 - (b) Certification of Registration with the Secretary of State (only if non-NJ corporation) ☒
 - (c) Acknowledgement of requirement for Disclosure of Political Contributions (ELEC) ☒
 - (d) Public Works Contractor Registration Certificate(s) (if applicable) ☐
 - (e) Affirmative Action Information Sheet with Certificate or Form AA302 ☒
 - (f) Signed Mandatory Equal Employment Opportunity Language ☒
 - (g) SBE/WBE/MBE Certificates and Form ☒
 - (h) Vendor Disclosure Form (EO129-Location of Services) ☒
 - (i) Notice of Set-Off for State Tax (P.L. 1999, c 159) ☒
 - (j) Automobile Insurance Liability Waiver ☐
 - (k) Insurance Certificate ☒
 - (l) Disclosure of Investment in Iran ☒
8. Bidder must sign Bid ☒
 9. Three year Open Option Clause ☒

SECTION II

A. INTENTION

1. Sealed Bids for **R-113092** must be received at the New Jersey Turnpike Authority Administrative Offices, 581 Main Street, Woodbridge, New Jersey 07095-5042, by the due date and time stated on the cover page of this “RFB” at which time and place said Bid will be opened and read in public.
2. Bidders mailing Bids should allow for their normal mail delivery time to ensure timely receipt of the Public Bids. **Please be advised that using an overnight/next-day delivery service does not guarantee overnight/next-day deliveries to our location. The Authority will not be responsible for any Bid not being received by the required date and time.**
3. It is the intention of the Authority to issue a purchase order or notice of award for a price agreement for the procurement of a **TELESCOPING AERIAL UNIT**.
4. Items purchased under this contract will be delivered as directed by the Authority.
5. Please contact Richard Bava with any questions regarding this procurement contract at 732-750-5300 x-8636, or rbava@turnpike.state.nj.us.

B. BID SHEET INSTRUCTIONS

1. Bidders must follow all instructions in this RFB and in the Instructions to Bidders issued by the Authority, and any other documents issued by the Authority in connection with this RFB (collectively, “Bid Documents”).
2. Bidders must examine the bid documents carefully before bidding and must ask the Director of Procurement and Materials Management Department (“PMM”) in writing for any interpretation or correction of any apparent ambiguity, inconsistency or apparent error therein. If necessary, an interpretation or correction to the specifications shall be issued by the Director of PMM in response to inquiries and/or addendum shall be faxed to Bidders who have obtained the Bid Documents. Upon the issuing of an addendum, the addendum shall become part of the bid documents. **Requests for interpretation or correction shall be considered only if received at least 5 business days prior to the Bid opening date.**
3. Written requests can be submitted by FAX at 732-750-5399.
4. The submission of the Bid is conclusive evidence that the Bidder is fully aware of the conditions, requirements, and details as stated in the Bid Documents. If the Bidder, prior to submitting its Bid, fails to notify the Director of PMM of the existence of an ambiguity or inconsistency in the Bid Documents, a Bid will conclusively be presumed to have been based upon the Authority’s interpretation of such ambiguity or inconsistency.

5. All erasures, interpolations or other physical changes on the Bid form shall be signed or initialed by the Bidder. Bids containing any conditions, omissions, erasure's, alterations, or items not called for in this "RFB" or irregularities of any kind, may be rejected by the Authority, in its sole discretion.

The Bidder shall not attach conditions, limitations or provisos to their Bid, except in cases where "exceptions" are permitted.

6. **The Authority will accept Approved Equivalent items on this Bid.** If a Bidder is basing the proposal on items other than what is specified, and wishes the items proposed to be considered as an "Approved Equivalent", the Bidder shall enter a price on the Bid sheet then submit on the Exception Sheet in the exact format of the line item on the RFB contained herein, the item number, an item description including manufacturers name, model number, informational brochure(s), and packaging quantities of those items that the Bidder proposes to substitute.

C. BASIS OF AWARD

1. **Bidders must supply a price for every item listed. Bids not having a price for all listed items may be rejected.**
2. **Bidders must quote only one price per line item. If a Bidder quotes multiple prices per line item, the Bid may be rejected.**
3. The Authority will purchase amounts of any given item as needed, at the sole discretion of the Authority and shall not be bound by any quantities listed. The Authority reserves the right to make reasonable increases or decreases to line item quantities.
4. All items are to be Bid FOB Destination. All shipping, handling, and other costs should be considered in the Bid price.
5. The Authority is tax exempt from New Jersey Sales and Excise Tax.
6. Award will be made to the lowest responsive Bidder for the total line items Bid.

D. MISCELLANEOUS

1. Delivery Date _____
(Insert if applicable)

2. Payment Terms: The Authority's standard payment terms are Net 30 days. Prompt payment discounts may be offered and must be a minimum of 10 days.
Discount: Maximum time period: _____ Percentage: _____

Note: Although prompt payment discounts will not be considered in determining low Bid, the Authority reserves the right to take advantage of any such discounts offered.

BID PRICE SHEET

ITEM	QTY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL DOLLAR AMOUNT
1	1	EA	TELESCOPING AERIAL UNIT, AS PER ATTACHED SPECIFICATIONS	\$	\$

ANY INQUIRIES CONCERNING THIS BID MUST BE SENT VIA FAX TO 732-750-5399
NO LATER THAN FIVE (5) BUSINESS DAYS BEFORE BID OPENING

NEW JERSEY TURNPIKE AUTHORITY

Andrea E. Ward
Director, PMM Department

_____/_____
Name of Company / Authorized Signature of Bidder

E. SIGNATURE PAGE

1. **ADDENDA / INQUIRIES:** COMPLETE (if applicable) BEFORE SUBMITTING BID:

Receipt of Addendum/Inquiries # _____ dated _____ is hereby acknowledged.

Receipt of Addendum/Inquiries # _____ dated _____ is hereby acknowledged.

☐

CHECK BOX IF NO ADDENDA/INQUIRY ISSUED

(All Addenda / Inquiries must be acknowledged as indicated above.)

2. **BID IRREVOCABLE:** This offer shall be irrevocable for ninety (90) working days after the date on which the Authority publicly opens this Bid except in those instances where an unsuccessful Bidder has filed a bid protest pursuant to N.J.A.C. 19:9-2.12. Upon notification of a protest, Bidders are required to hold their prices for an additional 90 days. All Bidders will be notified in writing of the action taken by the Authority.
3. **OFFER/CERTIFICATION:** The undersigned offers and agrees to furnish to the New Jersey Turnpike Authority the services and/or materials in compliance with all terms, conditions, specifications and addenda of the RFB, Bid Documents, and resulting contract. The undersigned further certifies understanding and compliance with the requirements of the standard terms and conditions as stated in the Instructions to Bidders included with the Bid Documents. The undersigned certifies that he or she executes this Bid with full authority so to do; and that all statements contained in this Bid and in this certification are true and correct, and made with full knowledge that the Authority relies upon the truth of the statements contained herein and in any statements requested by the Authority showing evidence of qualifications in awarding the contract.

I certify that the foregoing statements made by me are true. I am aware that if any of the foregoing statements made by me are willfully false, I am subject to punishment.

4. **AUTHORIZED SIGNATURE:** _____

Print Name and Title: _____

Bidder: _____

Address: _____

City _____ State _____ Zip: _____

E-mail address: _____

Telephone #: _____ Fax #: _____

Date: _____

SECTION III

NO RESPONSE BID SURVEY

BID REQUISITION NUMBER: R-113092

BID TITLE: TELESCOPING AERIAL UNIT

If you do not choose to respond to this Bid, please complete the form below:

Name of Company _____

Reason you did not respond (Check all that apply):

_____ Cannot supply product or service

_____ Cannot meet technical specifications

_____ Cannot meet delivery specifications

_____ Cannot meet legal requirements
(i.e. Bid/performance/security/insurance, etc.)

_____ Cannot provide a competitive price at this time

_____ Interested in receiving specifications for informational purposes only

_____ Insufficient lead time to respond

_____ Other:(please be specific) _____

_____ Do you wish to remain on our mailing list?

_____ Yes _____ No

Additional comments: _____

Signed (optional): _____

Company: _____

ADDITIONAL YEARS PURCHASING OPTION, for R-113092

BID TITLE: TELESCOPING AERIAL UNIT

3 - Year Open End Option: The Authority shall have the option for one (1) Model Year* from the date of Contract, to order additional units conforming to the requirements of these specifications at the same price and under the same terms and conditions as those contained herein.

The Authority shall further have the option to purchase additional units conforming to these specifications for two (2) additional Model Years. Any unit(s) offered during the two (2) subsequent Model Years shall be of the model equivalent to that specified herein. In the latter instances, if there have been any price changes, the vendor shall submit a request to the Authority covering the aforesaid price changes, and shall include appropriate explanation and justification for any such price changes.

Any such request for price adjustment shall be in writing and directed to the Director, Procurement and Materials Management Department and shall be accompanied by the following evidence as a basis for your request;

1. The published price lists for equipment, which were in effect at the time of your original proposal.
2. The equivalent published price lists in effect at the time of your request.
3. Any additional evidence which the Authority deems necessary in the evaluation of your request.

The Authority shall, within its sole discretion, have the right to accept the price changes proposed by the vendor or if it so desires, re-bid the requirement.

*Model Year is defined as the Model Year of the Manufacturer of the unit(s) offered by you in this Request for Quotation. In that instance where proposals are for equipment for which "Model Year" and "Production Cut-Off Dates" are undefined or non-existent, the "Model Year" is defined, for bid purposes, as one calendar year from the date on which the Contract is accepted. The last date on which orders may be placed for the Model currently in effect is_____.

NEW JERSEY TURNPIKE AUTHORITY

GENERAL INSTRUCTIONS AND SPECIFICATIONS FOR:

55 FOOT WORKING HEIGHT THREE SECTION TELESCOPIC INSULATED AERIAL UNIT AND ACCESSORIES

Quantity	Description	Maximum Delivery Date
1	55' Working Height Three Section Telescopic Insulated Aerial Unit and Accessories	240 Days After Receipt of Order

SPECIFICATIONS:

TIAU: 2015 TELESCOPIC INSULATED AERIAL UNIT AND ACCESSORIES

LB-SP-RS: LIGHTBAR, SWITCH PANEL, AND REAR STROBES

7PTC: 7-POLE TRAILER CONNECTORS ON TRUCKS AND TRAILER

COMPLIANCE WITH RULES AND REGULATIONS: The unit and associated equipment furnished must comply with all Federal and State Motor Vehicle Safety Laws and Regulations and shall be capable of passing the New Jersey State Motor Vehicle Inspection Laws, where applicable.

ENERGY STAR REQUIREMENTS: If applicable for items specified in bid package, the vendor must provide products that earn ENERGY STAR and meet the ENERGY STAR specifications for energy efficiency. The vendor is encouraged to visit energystar.gov for complete product specifications and updated lists of qualifying products. The ENERGY STAR label must also be affixed to each delivered item. The bidder's signature on the signature page certifies that items so indicated that have earned ENERGY STAR and meet the ENERGY STAR specifications or other standards for energy efficiency will be supplied.

ERRORS AND OMISSIONS: Inadvertent omissions or errors in the attached specifications must be brought to the attention of the New Jersey Turnpike Authority's Director of Procurement and Materials Management at 732-750-5300 before bid submission date. If, with knowledge of such error or omission and prior to the correction thereof, the bidder proceeds with any work affected hereby, they shall do so at their own risk and the work so done shall not be considered as work done under and in performance of this Agreement unless and until approved and accepted.

PILOT MODEL: Questions, which arise before or during the preparation of the pilot model, shall be addressed in writing via e-mail from the vendor to Peter Perperas (Project Supervisor), perperas@turnpike.state.nj.us at the New Jersey Turnpike Authority on a not to delay basis.

The awarded bidder shall make available one **fully completed** pilot model for inspection and approval by the Authority. The unit shall be transported (responsibility of the awarded vendor) to

the NJTA Garden State Parkway Division's Telegraph Hill Maintenance Facility located at Garden State Parkway Exit 116 in Holmdel, NJ 07733.

DELIVERY INSTRUCTIONS:

- A. Vendor must contact Peter Perperas (Project Supervisor) at 732-442-8600 ext. 2868 for authorization to schedule date and time prior to delivery. **Deliveries shall be made to the NJTA Garden State Parkway Division Telegraph Hill Central Maintenance Facility located at GSP Exit 116 in Holmdel, NJ 07733.**
- B. Vendor shall be responsible for all delivery, shipping and pick-up expenses.
- C. All units must be pre-delivery serviced, completely assembled, operational, and cleaned prior to Authority delivery.
- D. The following administrative package **must** accompany all deliveries:
 - **Certificate of Origin**: stamped "Sales Tax Satisfied" and shall be made out to New Jersey Turnpike Authority, 581 Main St. Woodbridge, NJ 07095. Certificate of Origin shall have current date and be hand delivered to Peter Perperas after final acceptance of complete order.
 - **Invoice**: purchase order number must be displayed on vendors invoice. Invoice shall have current date and be hand delivered to Peter Perperas after final acceptance of complete order.
 - Warranty forms properly executed.
 - Four (4) keys for each vehicle shall be furnished (each vehicle shall have an independent key code). Successful bidder must supply a key code listing for each vehicle identification number. **NO EXCEPTIONS**
 - Four (4) keys, keyed alike for toolboxes or similar compartments shall be furnished for each vehicle. **NO EXCEPTIONS**
 - State MVC (Motor Vehicle Commission) required inspection stickers shall be provided with each vehicle upon delivery.
 - Federal Safety Inspections shall be performed and stickers shall be attached to the vehicles prior to delivery.
 - **All vehicles being delivered shall have a dealer plate affixed to the vehicle. Under no circumstances shall a temporary registration (30 temp tag) be attached to the vehicle. The 30 day temp tag shall be hand delivered along with the invoice and all paperwork to Peter Perperas upon delivery.**
 - It shall be the responsibility of the awarded vendor that all tolls, when applicable be paid when making delivery to the Authority.

- Delivery of all units fully completed and fully compliant shall be made no later than two hundred forty (240) days after receipt of Purchase Order.

E. All units shall be delivered with a minimum of a half tank of fuel.

F. Deliveries made directly from the manufacturer to the Authority shall **not** be acceptable.

WARRANTY: All units delivered must be guaranteed to be free from defects in materials, design and workmanship for a minimum of one (1) year (see additional warranty coverages) from the time of acceptance by the New Jersey Turnpike Authority. All warranties shall start upon written acceptance of units by the New Jersey Turnpike Authority. Warranty must include service availability from any manufacturers authorized dealer establishment most closely located to Parkway and Turnpike area. This repair facility may not be further than 100 miles from Telegraph Hill Central Maintenance Facility in Holmdel, NJ 07733 or Central Shops Maintenance Facility located in Hightstown, NJ 08520. If warranty service is required, the vendor who supplied the unit shall provide for pickup, delivery and repair of unit at no charge to the New Jersey Turnpike Authority. The vendor shall also have a program to include an in-house warranty. All warranty periods shall start from date of acceptance of unit by the New Jersey Turnpike Authority.

EXCEPTION SHEET: Exception sheet is furnished with each set of specifications. Bidders making exceptions must note exceptions by item and indicate substitution in lieu and submit with bid, detailed specifications on the substitution. If the vendor is submitting an alternate product, component, feature or part to what is referenced in the specifications, the proposals **must** be accompanied by descriptive literature, marked and indicate the exact items to be furnished, with an engineering drawing of the same. **Failure to supply information requested may result in rejection of bid.** Where no exception is taken, the word "None" shall be neatly printed or typed on the exception sheet. **Failure to supply information and/or failure to complete the bidder's exception spaces in the prescribed manner may disqualify bid. It shall be understood that if no exception is taken, the vendor shall supply all material exactly as specified. No substitution will be permitted after receipt of bids.**

UNIT INFORMATION FORM: Vendor shall complete the entire Unit Information Form. **Failure to complete form may result in rejection of bid.**

MANUFACTURER'S PRODUCTION SHEET: The vendor shall furnish one (1) copy of the actual Factory Production Sheet for each unit provided. The copies of the Factory Production Sheet shall be submitted at the time of the Authority's inspection of the unit.

TRAINING: It shall be the responsibility of the successful bidder to supply all safety, operational and service training to New Jersey Turnpike Authority personnel in accordance with all applicable ANSI and OSHA regulations. The safety and operational training shall consist of a complete review and understanding of the manufacturer's owner manual, along with actual operation of equipment. The instructor shall emphasize all proper uses for safe operation. The training shall include but not limited to all general troubleshooting of the hydraulic system and

associated electronics. The instructor shall also emphasize the proper use of tools and test equipment along with general shop safety. The service seminars shall be similar to factory and manufacture type schools. The training shall be scheduled and take place at one (1) site, eight (8) hours designated by the New Jersey Turnpike Authority.

LABELS: Plastic stick-on labels shall not be acceptable.

ADVERTISEMENTS: No Dealer advertisements shall appear on unit or any other related equipment.

ACCESSORIES: All accessories shall be manufacturer installed when the item is available from the manufacturer.

FACILITIES: Bidders shall represent a manufacturer, which has in operation a factory adequate for the manufacture of the equipment, which it proposes to furnish. The manufacture(s) whose associated equipment or products are bid shall have a full service warranty and parts supply facility that can guarantee availability of parts within 24 hours after telephone order and shall be located within a 100 mile radius of either Central Shops Maintenance Facility (exit 8 on the NJ Turnpike) located in Hightstown, NJ 08520 or Telegraph Hill Central Maintenance Facility (exit 116 on the GSP) located in Holmdel, NJ 07733. This facility will be required to establish an in-house warranty program and provide all warranty work related to the equipment in the bid proposal. The bidder shall submit the locations, names and telephone numbers of people who are authorized to service the equipment or who can be reached for emergency service.

Location_____

Phone #_____

Contact_____

Name & Title

**SPECIFICATIONS: TIAU: 2015
55 FOOT WORKING HEIGHT THREE SECTION
TELESCOPIC INSULATED AERIAL UNIT
AND ACCESSORIES**

INTENT: The intent of this specification is to describe and govern the purchase of a 2015 or new current model 55' working height three (3) section telescopic insulated aerial unit and accessories. The components including the completed unit shall be new and of the latest design and be in current production at the time of the submission of bid. No bid shall be considered unless the vendor submitting the bid can meet the following conditions. All standard and optional equipment shall be Original Equipment Manufacturer (OEM) items, when available.

BIDDER'S INSTRUCTIONS

IT SHALL BE THE BIDDER'S RESPONSIBILITY TO CAREFULLY EXAMINE EACH ITEM OF THE SPECIFICATION. BIDDERS MUST INDICATE WHETHER THEY COMPLY OR NON-COMPLY FOR EACH LINE ITEM IN THE SPECIFICATION. FAILURE TO PROVIDE A COMPLETED BID MAY CAUSE REJECTION OF BID. ALL NON-COMPLY RESPONSES AND/OR BIDDERS PROPOSED "APPROVED EQUIVALENTS" MUST BE FULLY EXPLAINED ON EXCEPTION FORM, NOTING SECTION AND ITEM. FAILURE TO EXPLAIN NON-COMPLY RESPONSES OR FAILURE TO SUPPLY DETAILED LITERATURE/BROCHURES ON THE BIDDERS PROPOSED "APPROVED EQUIVALENTS" MAY CAUSE REJECTION OF BID. WHERE "MINIMUM/MAXIMUM" IS SPECIFIED, BIDDERS MUST PROPOSE AT LEAST THE MINIMUM/MAXIMUM SIZES OR THE BID MAY BE REJECTED.

	COMPLY	
	YES	NO
CHASSIS SPECIFICATIONS:		
A. 2015 or new current International Model 4400 or approved equivalent SBA (Set Back Axle) 4 x 2, 6-wheel configuration cab-chassis, utility body, and a 55' working height three (3) section telescoping insulated aerial unit and accessories.		
B. Bidders must provide detailed specifications, technical sheets, and diagrams/dimensions describing exact equipment (chassis, body, aerial unit, and all accessories) that shall be provided.		
C. All standard and optional equipment shall be Original Equipment Manufacturer (OEM) items, when available. NO EXCEPTIONS		
FRAME:		
A. Frame rails: 120,000 psi minimum.		
B. Bolt-on or welded frame sections shall not be acceptable.		
C. Huck fasteners shall be used for all cross members, fuel tank, and battery		

	COMPLY	
	YES	NO
box brackets.		
D. Heavy-duty front bumper and bolt-on tow hooks with opening through bumper.		
E. Bolt-on front tow hooks with opening through the bumper. One right and one left, within easy access to afford quick operator hook up of tow chain. Hooks shall be of drop forged steel. Grade 8 bolts shall be use to attach hook to chassis. Weld on hooks shall not be acceptable.		
F. Wheelbase shall be 171", cab to axle shall be 104" and AF shall be as required for body.		
G. 38,000 lbs. G.V.W.R. minimum.		
H. The Authority reserves the right to determine final CA and AF dimension at issuance of purchase order.		
FRONT AXLE:		
A. 12,000 lbs. minimum capacity front axle.		
B. Weight capacity of front axle must be able to accommodate body, aerial unit and all equipment specified in this bid package.		
FRONT SUSPENSION:		
A. 12,000 lbs. minimum capacity front suspension.		
B. Taper-leaf front springs with shock absorbers.		
REAR AXLE:		
A. 26,000 lbs. minimum capacity with driver controlled main locking differential.		
B. An automatic disengage feature shall be supplied to disengage the locking mechanism after the vehicle reaches a speed of 25 mph.		
C. Factory installed synthetic gear lube with magnetic drain plug shall be provided.		
D. Axle ratio shall enable vehicle to cruise at 65 mph at maximum GVWR.		
REAR SUSPENSION:		
A. 26,000 lbs. minimum capacity vari-rate rear springs.		
B. Include 4,500 lbs. capacity auxiliary springs.		
BRAKES:		
A. ABS anti-lock brakes.		
B. Air dryer and moisture ejector shall be supplied on wet tank.		
C. "S" type cam brake shoes.		
D. 13.2 cubic foot gear driven air compressor with dual air supply gauges.		
E. Air pressure gauges shall be located in instrument cluster.		
F. Automatic slack adjusters shall be provided.		
G. All air lines shall be color-coded.		
H. Provide dust shields on front and rear brakes.		
I. Parking brake alarm shall be supplied. Horn shall sound when parking brake is not set with ignition off and any door opened.		
STEERING:		
A. Full hydraulic power steering.		

	COMPLY	
	YES	NO
B. Steering column shall be tilt style.		
EXHAUST SYSTEM:		
A. Horizontal diesel particulate filter.		
B. Exhaust shall be mounted on right side under cab with short horizontal tailpipe.		
C. A dash-mounted switch shall be provided to inhibit diesel particulate filter regeneration.		
ELECTRICAL:		
A. Programmable electrical system with self-diagnostics. System shall be designed to isolate electrical problems on the input/output side of circuit and display fault codes. Color coded and continuously numbered wiring.		
B. All electronically controlled accessory equipment shall be interfaced to a Body Integrated Remote Power Module mounted inside cab; up to 6 outputs and 6 inputs, maximum 20 amps per channel, maximum 80 amps for each required module. (Includes 2 dash-mounted switch pack with 6 switches latched/labeled and back-lighted, if needed) with this system including but not limited to switches, controls and indicators. Anticipated provisions shall be communicated to the chassis manufacture prior to chassis build.		
C. All circuit breakers shall be protected by manual reset circuit breakers and shall be mounted in the center control panel.		
D. Three (3) 12-volt 2775 CCA maintenance free batteries with over crank protection.		
E. AM/FM radio with weather band, clock, and speakers.		
F. Turn signal switch shall include "flash to pass" feature.		
G. Daytime running lights, fender mounted dual faced amber/amber directional lights in addition to front corner directional shall be provided.		
H. The following lights shall automatically turn on when wiper switch is engaged: <ul style="list-style-type: none"> • Headlights • Taillights • Marker lights 		
I. Five (5) LED cab marker lights shall be provided.		
J. Wipers shall have two (2) speeds with washer and intermittent feature. Wiper control shall force wipers to their slowest intermittent speed when parking brake is set and wipers are left on for more than 30 seconds.		
K. 185-amp Leece-Neville BLP2361H brushless, pad mounted with remote voltage sensor or approved equivalent alternator.		
L. Gauges & Lights: <ul style="list-style-type: none"> • Oil pressure • Water temperature • Warning lights • Voltmeter • Speedometer 		

	COMPLY	
	YES	NO
<ul style="list-style-type: none"> • Tachometer • Odometer • Trip miles • Engine hours • Trip hours 		
M. Dual electric horns.		
N. Install a Preco 45-AA or approved equivalent back-up alarm.		
O. Body builder harness shall be located outside of cab. Included shall be stop, tail, turn, and marker light circuits, ignition controlled auxiliary feed, and ground.		
P. Chassis manufacture shall supply 2-way radio wiring with 20 amp fuse protection. Shall include 5 amp fuse and be routed to overhead radio console.		
Q. A weatherproof module for body builder connections shall be located inside the cab.		
R. All switches must be back-lighted and (OEM) labeled.		
S. All electrical powered auxiliary equipment not installed by chassis manufacturer shall be wired in accordance with section A & B (ELECTRICAL) and include proper circuit protection. All wiring shall be installed in a weather tight junction box or weather pack connector. Solderless connectors shall be unacceptable. Any holes drilled for installation of accessories, wiring, brackets, etc. shall be properly primed, sealed with silicone and painted prior to installation to prevent rust.		
T. Head lights shall automatically come on with wipers.		
U. Test exterior light switch shall be installed by chassis manufacturer. The switch shall cycle all the lights on the chassis except for reverse lights. Included shall be high/low beam, turn signals, and marker lights.		
V. In addition to the control switch, all lighting and accessories shall turn off with ignition key "off" except for Federal D.O.T. requirements.		
W. It shall be the responsibility of the body supplier to ensure capability of installed equipment with switches provided by chassis manufacturer. The following switches shall be provided by the chassis manufacturer and will be incorporated in the chassis standard wiring and circuit protection: NO EXCEPTIONS <ul style="list-style-type: none"> • Light bar • Rear strobes • Work lights • Compartment rope lighting 		
ENGINE:		
A. Electronic 6-cylinder turbo-charged diesel engine.		
B. 300 minimum horsepower @ 2,000 rpm.		
C. 860 lb/ft torque minimum @ 1,200 rpm.		
D. Heavy-duty starter with over crank protection.		
E. Cruise control integral with steering wheel.		

	COMPLY	
	YES	NO
F. Provision for remote mounted engine control shall include wiring for body builder installation of PTO controls, ignition switch controlled.		
G. Heavy-duty radiator.		
H. Ethylene Propylene Diene Monomer (EPDM) or approved equivalent hoses.		
I. Constant torque heat shrink radiator clamps.		
J. Single element air cleaner, integral dash-mounted air restriction gauge.		
K. 120-volt engine block heater with weather-protected flip plug cover located under driver's door.		
L. Extended long life coolant protected to at least -40°.		
M. Low coolant level warning light and audible alarm.		
N. Automatic shutdown system for oil pressure, coolant temperature, and coolant level with a 30 second delay and auto override.		
O. Heated fuel/water separator.		
P. Fuel pressure sensor.		
TRANSMISSION:		
A. Allison 3000 RDS or approved equivalent.		
B. Five (5) forward speeds, automatic with dash-mounted push button control.		
C. Include transmission oil cooler and temperature gauge.		
D. Synthetic transmission fluid shall be used and installed by OEM.		
E. Furnish PTO provision and dash-mounted temperature gauge.		
F. Chassis manufacturer installed PTO accommodation for electric cover hydraulic PTO with dash-mounted, back-lighted switch and indicator light in gauge cluster. Wiring shall be incorporated and over-speed protection programmed within the OEM electrical system.		
FUEL TANK:		
A. 50-gallon minimum capacity aluminum fuel tank shall be mounted under cab and include stainless steel straps.		
B. Thermostat controlled electric fuel heater and filter with filter restriction change indicator.		
C. Fuel tank shall be labeled in 1" high green letters "DIESEL FUEL ONLY" .		
D. Fuel tank vent tube shall be attached to a bracket via zip-tie.		
DIESEL EXHAUST FLUID (DEF) TANK:		
A. 7-gallon capacity DEF tank shall be mounted under cab.		
FRONT TIRES & WHEELS:		
A. Two (2) Goodyear or approved equivalent 12R22.5, 16-ply highway tread black wall radials.		
B. Hub piloted black powder coat paint 8.25" steel disc wheels.		
REAR TIRES & WHEELS:		
A. Four (4) Goodyear or approved equivalent 12R22.5, 16-ply highway tread black wall radials.		
B. Hub piloted black powder coat paint 8.25" steel disc wheels.		

	COMPLY	
	YES	NO
SPARE TIRE:		
A. One (1) spare tire shall be supplied with each vehicle ordered in this bid package.		
B. Spare tire shall be mounted on wheel, balanced, and identical to make and model supplied on vehicle.		
CAB:		
A. Conventional galvanized steel cab.		
B. Cab rear air bag suspension.		
C. Hood shall be a 3-piece design with stationary grille.		
D. Tinted glass all around.		
E. Vented windows that open.		
F. Odometer shall display miles, trip miles, engine hours, trip hours, and engine/vehicle system codes.		
G. Air-operated, high-back vinyl driver's seat with headrest and lumbar support and inboard armrest.		
H. High-back vinyl non-suspended passenger seat with headrest.		
I. 3-point orange colored seatbelts with automatic retractors.		
J. Overhead console with radio pocket wired as described in paragraph Q of electrical section.		
K. Front storage pockets.		
L. Dome light, left/right courtesy lights shall activate when doors are opened.		
M. Dual sun visors.		
N. In-dash cup holder.		
O. Interior grab handles-both sides.		
P. Chrome exterior grab handle with rubber insert-drivers and passenger side of cab.		
Q. Exterior mirrors shall be 16" x 7" with break-away style "C" stainless steel brackets and convex mirrors. A look down 6" x 10" panoramic mirror shall be mounted above passenger door. Both primary mirrors shall be motorized and controlled by a switch located in cab within easy reach of the driver. Primary and convex mirrors shall be thermostatically heated.		
R. HVAC system shall include heater/defroster/air conditioning. Air conditioning system shall have self-diagnostic features with dash displayed faulty codes.		
S. Standard instrumentation package.		
T. Hood wheel well rubber fender extensions shall not be acceptable.		
PINTLE HOOK & PLATE:		
A. The pintle hook shall be forged steel ridge mount design to carry a 6,000 lbs. vertical load and a 30,000 lbs. gross trailer weight.		
B. The pintle hook shall include a secondary cable tethered safety pin with a double wire tab lock. A cotter pin and chain shall not be an acceptable secondary lock pin arrangement.		
C. A ½" thick by at least 36" wide formed steel plate, full width of chassis		

	COMPLY	
	YES	NO
frame rails, with a 3" return flange at the bottom shall be bolted to the chassis frame.		
D. Bottom and side support gussets shall be included.		
E. Two (2) swivel ¾" cold rolled steel "D" loops, 3" i.d. minimum shall be attached to the bottom flange.		
F. Properly sized grade 8 bolts shall be used throughout the installation.		
G. The pintle hook height shall be 26" from ground to center of hook.		
H. A non-metallic weatherproof seven (7) wire trailer socket shall be mounted through the hook plate on the upper left side of the pintle hook and wired to the chassis as outlined in Specifications: 7PTC. Exact location shall be determined by contacting the NJTA Inspector prior to mounting.		
I. An electronic brake controller in addition to the ABS brake controller shall be cab mounted and wired into the seven (7) wire plug as per Specifications: 7PTC. Exact location shall be determined by contacting the NJTA Inspector prior to mounting.		
J. A complete ABS air brake trailer system including a hand valve control and trailer protection valve shall be installed with the exception of the Glad Hands. The Glad Hand outlets on the pintle plate (location to be determined by the Authority) shall be plugged to prevent air leakage. The Glad Hands shall be supplied to the Authority separately and not installed.		
LIGHTS AND REFLECTORS:		
A. Lights and reflectors shall comply with New Jersey State DOT Regulations.		
B. Lights shall be LED, where applicable.		
MISCELLANEOUS:		
A. Provide in cab a dry chemical 5 lb. "UL" listed fire extinguisher suitable for ABC class fires.		
B. Provide in cab a D.O.T. approved reflective triangle kit.		
PAINT:		
A. All metal parts shall have the mill scale and oil removed by means of a high-pressure chemical cleaner prior to painting.		
B. The top of the hood shall be painted non-reflective flat black.		
C. All frame and running gear shall be painted manufacturers black.		
D. The other sections of the cab shall be painted with DuPont Dulux Omaha Orange Enamel # 93-082 or approved equivalent. Paint shall be applied in a two-step process with the orange base coat and additional polyurethane overcoat.		
E. Wheels, bumper, battery box, air tanks, and engine oil pan shall be powder coated painted.		
DIAGNOSTIC REPAIR:		
A. Two (2) complete sets of factory diagnostic and repair vehicle interface software, to include all necessary cabling and connections for a laptop computer shall be supplied.		
MANUALS:		

	COMPLY	
	YES	NO
A. Two (2) of each of the following manuals for cab/chassis shall be supplied in either paper form or computer disc upon delivery: Operation, Repair, Maintenance, Parts, and Electrical for each vehicle ordered in this bid.		
WARRANTY:		
A. Engine shall be covered for seven (7) years/150,000 miles/5400 hours including all electronic engine components and injectors at 100% parts and labor.		
B. Cab shall be covered for five (5) years unlimited miles for perforation, corrosion, and structure.		
C. The frame shall be covered at 100% parts and labor for seven (7) years/unlimited miles for cracks.		
D. The transmission shall be covered for five (5) years/unlimited mileage at 100% parts and labor.		
AERIAL UNIT SPECIFICATIONS:		
A. Aerolift series 3T-40 or approved equivalent three section telescopic boom aerial device with bucket.		
B. The bucket shall have a 180° rotation and hydraulic bucket leveling controls.		
C. Platform capacity of at least 500 lbs.		
D. Winch capacity of at least 750 lbs.		
E. Aerolift HE-10 or approved equivalent shall add another 10' of vertical height.		
F. Total working height shall be 55'.		
G. Pedestal base shall be bolted to the truck chassis.		
H. Turret with continuous rotation shall be mounted to the turntable on top of pedestal.		
I. Unit shall be insulated and rated to ANSI Class "C" A92.2.		
TELESCOPIC ELEVATOR:		
A. Elevator shall be fully hydraulic actuated telescopic unit designed to replace pedestal on a conventional unit.		
B. Elevator shall provide 10' of straight vertical lift to the unit.		
C. The five section unit is actuated by two (2) telescopic cylinders fully enclosed with the mast structure.		
D. Using the 10' elevator shall not increase the overall stowed height of the unit.		
E. The control of the elevator shall be from all control stations.		
F. The outer tube of the unit shall be 27" square by 77" long and formed from ¼" steel plate. The outer tube and mounting will project past the chassis frame rail 26" maintaining a lower center of gravity.		
G. Each of the mating tubes shall ride on wear pads installed at all four (4) intersecting sides of the sections. This solid stacking shall minimize any of the size deviations between the sections, maintaining vertical attitude when extending the unit.		

	COMPLY	
	YES	NO
TURRET:		
A. The turret shall consist of a 1¼" base plate and two ¾" side plates cross box gusseted to ensure strength and integrity. The main boom assembly and elevation cylinder are mounted between the turret side plates.		
B. The lift cylinder bearing blocks shall be flame cut from solid steel plate 4" thick and jig welded in place.		
C. Full pressure lower controls for the aerial device are located on the turret.		
D. The turret is designed in such a manner as to not allow any portion to extend beyond the off side of the truck when rotating.		
BOOM ASSEMBLY:		
A. The boom assembly shall consist of three (3) sections, a main stationary section, which is attached to the turret, and two outer moving sections.		
B. The outer most section supports the personnel basket.		
C. The booms shall be fully actuated by hydraulic cylinders. There shall be no cables or pulleys in the boom extension.		
D. The outer boom section is a 10" square fiberglass section fully actuated by the hydraulic cylinder.		
E. The second section is a 12" square steel section and the main boom is a 14" square steel boom section.		
F. Steel sections are reinforced at critical areas and welded 100%.		
ELEVATION:		
A. The booms shall be elevated by a 6" double acting cylinder.		
B. The booms travel from -20 degrees below the horizon to + 75 degrees above the horizon.		
C. A double pilot holding valve shall be bolted directly to the elevation cylinder to prevent free fall in the event of hose failure and assist in holding the boom in rest during transit.		
D. Unit capacity shall be rated at any boom angle.		
E. Personnel platform capacity shall be rated at any boom angle or boom extension.		
ROTATION:		
A. The turret and boom assembly shall rotate on a ball-bearing gear.		
B. The unit shall rotate 360° continuously.		
C. The unit shall also be manually rotated in the event of power failure.		
D. The unit shall be equipped with an automatic greasing system to lubricate the rotation.		
EXTENSION:		
A. The booms shall be extended and retracted by a double acting type cylinder.		
B. The cylinder shall be fully enclosed by the boom.		
C. The cylinder shall power the boom section in both the, extend and retract motion.		
GROUND CONTROL STATION:		
A. The ground control station shall have multiple, proportional single axis joy		

	COMPLY	
	YES	NO
stick controls to operate the boom functions.		
B. They shall be enabled with a separate momentary switch to allow for the override of the upper controls.		
C. This station shall have the same controls as the upper controls including the emergency stop.		
D. These controls shall not be accessible directly from the ground but shall be accessible from a work station, isolated from the ground to ensure operator safety in a separate compartment located on top of the body curb side.		
TURRET CONTROLS:		
A. Full pressure lower controls located at the turret provide control for all boom functions and for bleeding of the platform leveling system, and all hydraulic boom options.		
B. The turret controls provide for metering of all functions and override the upper controls at the platform and ground control station if provided.		
BASKET CONTROLS:		
A. Full hydraulic proportional basket controls to operate unit functions shall be located at the basket.		
B. There will be one (1) control for each function.		
C. Accessory functions, stop/start, throttle and emergency pump shall be included.		
D. The unit will have emergency stop in the basket control as well as the ground control station.		
E. Full proportional controls shall allow for fully metered boom operation.		
F. All the boom controls are of a fail-safe design and shall return to center automatically.		
G. The unit shall be equipped with an outrigger interlocks, which shall not allow the unit to be operated until the outriggers are deployed.		
H. The unit shall also have a boom over-stow protection to keep the operator from stowing the boom with too much down-pressure.		
FIBERGLASS BUCKET:		
A. An end hung, 180° rotating 24" x 36" x 42" basket mounted on the tip of the extension boom.		
B. The basket shall have an operating capacity of 350 lbs. personnel and 750 lbs. material.		
C. The unit shall have two (2) lanyard anchor points on the end of the boom.		
D. The unit shall be tested as a material handling unit.		
E. Supply two (2) soft covers for bucket.		
BASKET LEVELING:		
A. The basket shall maintain level in all positions of boom movement by a master slave hydraulic leveling system.		
B. The main boom shall activate the master cylinder located in the turret.		
C. The master turret leveling cylinder feeds the basket leveling cylinder, maintaining the basket level.		

	COMPLY	
	YES	NO
D. The cylinder at the basket shall have a pilot mounted holding valve to prevent accidental dumping of the basket in the event of a hose failure.		
E. Provisions to dump, adjust, and bleed the bucket shall be located at the turret control station.		
"H" FRAME STYLE STABILIZERS:		
A. Hydraulically operated downriggers shall be mounted on the unit and attached directly to the chassis frame and the tower.		
B. The stabilizers shall have electric roller style limit switches that shall be used to define the travel of the downriggers.		
C. The signals from these sensors shall be used to interlock the boom so that they must be deployed prior to the boom becoming operational.		
D. The unit shall ensure a minimum of 1" of penetration on level ground.		
E. The stabilizer shall maintain a 9" minimum of ground clearance in the stowed position.		
F. The stabilizers shall be of sufficient span to stabilize the unit in accordance with ANSI standards for man baskets.		
G. Maximum span on the stabilizers shall be 96".		
H. Rear set of stabilizers shall not exceed the maximum span of 96".		
"H" FRAME STYLE REAR AUXILLARY STABILIZERS:		
A. Hydraulically operated downriggers shall be mounted rear of the rear axle and attached directly to the underside of the chassis fame.		
B. The stabilizers shall have electric roller style limit switches that shall be used to define the travel of the downriggers.		
C. The signals from these sensors shall be used to interlock the boom so that they must be deployed prior to the boom becoming operational.		
D. The unit shall ensure a minimum of 4" of penetration on level ground and not exceed 96" in width.		
E. The stabilizer shall maintain a 9" minimum of ground clearance in the stowed position.		
F. The stabilizers shall be of sufficient span to stabilize the unit in accordance with ANSI standards for man platforms.		
HYDRAULICS:		
A. The system shall be powered from a transmission mounted hot shift PTO with a direct mount gear style pump.		
B. The pump shall be sized to provide 15 gpm of flow at 1,000 rpm's of engine speed.		
C. DC powered emergency power unit shall be mounted at the elevator base and be plumbed into the main system to allow for emergency operation in case of main failure.		
D. The open center hydraulic system will operate at 3,000 psi maximum pressure.		
E. The system shall utilize R100 hose, properly supported throughout the installation and a minimum of a 50 gallon hydraulic tank with 100 micron		

	COMPLY	
	YES	NO
return filter and isolation valves.		
TESTING:		
A. All critical welds shall be Dye Penetrant tested according to AWS D1.2 structural welding code.		
B. All welding shall be performed in accordance with AWS D1.2 structural welding code by qualified welders.		
C. All testing shall be recorded and retained with the production records of the specific unit.		
D. All structural material shall be from certified steel with the test certifications being maintained in the production records.		
E. The major components of the unit shall be serialized and recorded.		
F. Every unit shall be factory stress tested, using a dynamic test procedure with 150% of the rated load.		
G. If the unit is factory mounted this may be in conjunction with the ANSI testing required by ANSI A92.2-2009.		
H. Di-electric testing shall be done in accordance with ANSI 92.2-2009 as a class "C" insulated unit.		
POWER TAKE-OFF:		
A. The unit shall have a heavy duty SAE 10 bolt PTO with cab control.		
B. The PTO shall be a hot shift 12 vdc operated type.		
C. A dash-mounted light shall be provided to indicate the PTO engagement.		
ELECTRICAL CERTIFICATION:		
A. The aerial unit shall be electrically tested in compliance with category "C" 46 KV and below per ANSI 92.9-2009.		
DECALS:		
A. All device danger and operator decals shall be installed.		
BOOM REST:		
A. A heavy duty boom rest with boom tie down shall be provided.		
B. The rest shall be welded steel construction, with padded boom cradle.		
C. The boom shall be secured in the rest with a heavy duty nylon strap with an eccentric tightening lever.		
EMERGENCY POWER:		
A. The aerial device shall have an emergency 12 volt DC electric motor power hydraulic system.		
B. The emergency power system shall be connected in parallel with the main pumps and shall be designed for non-continuous operation.		
C. The system shall be able to return the aerial device to the complete stored position and retract the outrigger.		
D. The emergency power control shall be located at all stations.		
E. The power for the DC motor shall come from the truck batteries.		
ENGINE START-STOP:		
A. Provisions shall be provided to start and stop the truck engine at the bucket and ground controls.		

	COMPLY	
	YES	NO
B. The system shall not violate the dielectric requirements.		
TWO-SPEED THROTTLE CONTROL:		
A. An electric throttle control shall advance the engine rpm to a preset designated speed when activated.		
B. The speed throttle shall activate at all the control stations.		
HYDRAULIC WINCH:		
A. A hydraulic winch shall be permanently mounted on the main boom with sheave arrangement located at the bucket end.		
B. The winch shall not restrict any bucket positioning nor shall the winch cable ride over the bucket.		
C. The capacity of the winch and boom shall be 750 lbs. in all boom positions.		
D. Controls for the winch shall be located at the ground control station and turret control.		
E. A pulley shall be mounted on the side of the outer boom curb side.		
F. The winch line shall ride over the pulley.		
WARNING SYSTEM:		
A. A visual and sound warning system shall be provided. The visual warning system shall be a red lens light with a diameter of at least 3" mounted on the trucks dash.		
B. The light shall be on when the boom of the aerial bucket is not in the travel position.		
C. The sound warning system shall be an alarm mounted under the driver's seat.		
D. The alarm shall sound if the transmission of the truck is engaged when the boom is not in the travel position.		
E. All standard OEM warning systems shall be installed and shall be operational.		
MANUALS:		
A. Two (2) sets of manuals for operating, maintenance, service, and parts shall be provided in paper.		
PAINT:		
A. All components shall be prepared for paint.		
B. All parts shall be painted prior to assembly with an epoxy base coat and a top coat of polyurethane white (Axalta Imron or approved equivalent).		
HEAVY-DUTY UTILITY BODY SPECIFICATIONS:		
A. 132" heavy duty utility body with 40" rear platform.		
B. The body shall be mounted on the truck chassis described in these specifications.		
BODY SIZE:		
A. The body shall have the following approximate dimensions: Length: 132" with extension 172"		

	COMPLY	
	YES	NO
Rear platform extension: 40" Height @ front and rear: 47" Compartment depth: 18" Body width: 92"		
CONSTRUCTION:		
A. Wheel housings shall be equipped with rubber fenderettes.		
B. The body shall be constructed of 14-gauge galvanized steel.		
C. Rear panels shall be 12-gauge galvanized steel.		
D. The panels between compartments shall be 16-gauge galvanized steel.		
E. The doors shall be double paneled and constructed of 20-gauge galvanized steel.		
F. Body cross members shall be 5" structural steel.		
G. The body shall be welded and riveted throughout to constitute a single unit.		
H. All welding shall be in accordance with good commercial practices.		
I. All sheared edges of the bulkheads and side paneling's including door openings shall have lapped or rolled edges.		
J. The forward portion of all door openings shall have water guards to keep out rain water.		
COMPARTMENTS:		
A. Curbside Compartments: <ul style="list-style-type: none"> The front vertical compartment shall be 29" wide x 47" high and 18" deep. The inside of the compartment shall have four (4) adjustable shelves with dividers. The second vertical compartment shall be 27" wide x 47" high x 18" deep. The inside of the compartment shall have one (1) shelf with dividers and three (3) 14" deep roll out drawers on 250 lbs. capacity slides under shelf with three (3) adjustable dividers per drawer. The center compartment shall be horizontal over the wheel housing and shall be 50" wide x 19" high x 18" deep. The inside of the compartment shall have a plain permanent through shelf with plywood bottom in the upper portion and a bolt bin in the base of compartment. The rear vertical compartment shall be 26" wide x 47" high x 18" deep. The inside of the compartment shall have a plain permanent through shelf with plywood bottom in the upper portion, three (3) material hooks on the back panel. The rear vertical compartment shall be 26" wide x 47" high x 18" deep. The inside of the compartment shall have one (1) plain permanent through shelf that extends forward into the center compartment in the upper portion and two adjustable shelves with dividers in the lower portion. 		
B. Street side Compartments: <ul style="list-style-type: none"> The front vertical compartment shall be 29" wide x 47" high x 18" deep. The inside of the compartment shall have four (4) adjustable 		

	COMPLY	
	YES	NO
<p>shelves with dividers.</p> <ul style="list-style-type: none"> The second vertical compartment shall be 27" wide x 47" high x 18" deep. The inside of the compartment shall have a plain permanent through shelf in the upper position with plywood bottom, and have three (3) 14" deep roll out drawers on 250 lbs. capacity slides with three (3) adjustable dividers per drawer. The center compartment shall be horizontal over the wheel housing and shall be 50" wide x 19" high x 18" deep. The inside of the compartment shall have a plain permanent through shelf with plywood bottom in the upper portion and a bolt bin in the base of compartment. The rear vertical compartment shall be 26" wide x 47" high x 18" deep. The inside of the compartment shall have a plain permanent through shelf with plywood bottom in the upper portion, three (3) material hooks on the back panel. The street side compartments shall have plywood lined through shelf with door opening of 13" x 18" (with a stainless steel flush-type locking handle) at rear end of body. Shelf extends from rear of body through to the second vertical compartment. 		
C. All shelves shall be galvanized in natural galvanized finished (no paint).		
D. Diamond tread plate shall be installed on the compartment tops – both sides and coated with Ferrox or approved equivalent non-skid material.		
E. Bustin Firm Grip or approved equivalent steps and outside hand rail shall be installed on the curb side compartments at the rear.		
F. The rear inner corners of the body side compartments shall have channels 14" high for holding up two 58" x 6" x 1" boards. Provide two (2) hardwood tailgate boards approximately 58" long x 6" high x 1" thick. The boards shall slide into the channels.		
G. The compartments shall be equipped with LED rope lighting. Each compartment shall have an automatic door switch with master lighted switch in cab.		
DOORS:		
A. The compartment doors shall be double-panel construction with 18-gauge galvanized steel exterior panel and 20-gauge galvanized steel interior panels.		
B. Hinges to be 10-gauge zinc plated steel "hidden" hinges with 1/4" stainless steel pins at pivot points.		
C. Hinges bolted in place. Horizontal doors shall have supporting chains, rubber stop bumpers and built-in water troughs.		
D. The vertical doors shall have gas prop door holders.		
E. The doors shall be equipped with stainless steel flush-type handles, rotary action paddle locks and a full length locking device shall be provided for each side of compartment doors (master locking system). Provide padlocks, keyed alike and four (4) keys.		
F. Doors shall be weatherproof using automotive type door seals.		

	COMPLY	
	YES	NO
G. The exterior paneling of all doors shall be free of excessive waves or welding marks in the metal.		
FLOOR:		
A. The floor shall be 10-gauge diamond safety tread steel coated with Ferrox or approved equivalent non-skid material.		
REAR EXTENSION:		
A. The rear of the body shall have a 40" platform extension with proper reinforcements.		
B. The rear platform shall be built of 10-gauge diamond safety tread plate.		
C. The rear platform shall have two grab rails and two grip strut cable stirrup steps.		
D. The platform shall be coated with Ferrox or approved equivalent non-skid material.		
E. The extension shall have thru-tunnel with doors at each end, with 6" high x 18" wide doors at each end.		
F. On the curbside of the extension a mounting bracket shall be provided for a vice.		
G. The vice shall be provided with storage space in one of the body compartments.		
H. The center section of the platform extension shall extend out approximately 18".		
FENDERS:		
A. The body shall have rubber fenderettes with mud and stone guards and mud-flaps (no advertisements).		
WHEEL CHOCKS:		
A. Provide two (2) heavy-duty wheel chocks.		
B. Wheel chock storage shall be provided in the body wheel well panels, one (1) each side.		
BOOM SUPPORT:		
A. The body shall include a structure for the aerial bucket boom cradle.		
RUST PROOFING:		
A. Complete body shall be rust proofed.		
B. Rust proofing material shall be Ziebart or approved equivalent.		
C. The application of rust proofing material must be done by a facility whose primary business is vehicle/equipment rust proofing.		
D. Vendor must supply written certification and warranty of rust proofing.		
PAINT:		
A. DuPont Dulux Omaha Orange Enamel # 93-082 or approved equivalent. Paint shall be applied in a two-step process with the orange base coat and additional polyurethane overcoat.		
B. Body inside body compartments including doors (but not shelves).		
ELECTRICAL:		
A. All body lighting shall comply with FMVSS108.		

	COMPLY	
	YES	NO
B. All clearance and marker lights shall be LED.		
C. Reflectors: two (2) red reflectors at rear side of body, two (2) red reflectors at rear of body at widest practicable positions and two (2) amber reflectors at front side of body.		
D. Stop/Turn/Taillights: total of four (4), two (2) on each side in rear face of tail shelf.		
E. Back-up lights: total of two (2), one (1) on each side in rear face of tail shelf.		
F. License plate holder with light.		
WARNING LIGHTS:		
A. Rear Warning Lights: two (2) Whelen Model 90AA5SAR, 9" LED lights or approved equivalent. Lights shall be grommet mounted one (1) each side, rear face of curbside/street side compartment. Actuation of these lights shall be from one (1) dash mounted switch.		
B. Exact location of lights shall be determined by contacting the NJTA Inspector prior to mounting.		
LIGHTBAR:		
A. Mount onto cab roof (See Specifications: LB-SP: LIGHTBAR AND SWITCH PANEL).		
ROTATING LIGHTS:		
A. Two (2) amber rotating lights shall be mounted on the body front compartment with heavy duty protective guards (one on each side).		
B. The lights shall be a Class I Arrow Model # 580-00-1 LED or an approved equivalent.		
C. The switch for the lights shall be dash-mounted and properly labeled.		
D. One (1) back lit rocker type activation switch shall be installed in cab to operate rotator lights.		
E. Exact location of lights shall be determined by contacting the NJTA Inspector prior to mounting.		
WORK LIGHTS:		
A. Four (4) Whelen Model PFBP12 or approved equivalent LED work lights.		
B. One (1) mounted on top of second compartment curbside and one (1) mounted on second compartment street side.		
C. One (1) mounted at top curbside and one (1) mounted top street side rear compartment.		
D. One (1) dash-mounted switch to operate both lights.		
E. Switch shall be properly labeled.		
F. Exact location of lights shall be determined by contacting the NJTA Inspector prior to mounting.		
ACCESSORY EQUIPMENT:		
A. CAPSTAN HEAD WINCH: <ul style="list-style-type: none"> Capstan shall have a minimum line pull of 3,000 lbs. with variable and reverse controls. 		

	COMPLY	
	YES	NO
<ul style="list-style-type: none"> • Capstan head winch shall be mounted under the body rear extension on the curbside rear. • Vendor shall supply and install all necessary components to insure the Capstan head winch is complete and operational. 		
B. GENERATOR: <ul style="list-style-type: none"> • Hydraulic driven generator shall be provided and installed on floor body in a weatherproof enclosure against bulkhead of body. • Generator shall be rated for 3,000 watts at either 120 or 240 volts. • Generator shall be a brushless design with short circuit protection, lifetime lubricated bearings, hydraulic motor with pressure compensating flow control. • Vendor shall supply and install all necessary components to insure the generator is complete and operational. • Generator shall be installed so the aerial device and generator can operate simultaneously. • Exact location of generator shall be determined by contacting the NJTA Inspector prior to mounting. 		
C. EXTENSION CORD/REEL: <ul style="list-style-type: none"> • 120 volt heavy-duty 50' long extension cord with retractable reel shall be provided and installed. • The reel shall be mounted on top of the curbside compartment and wired to the hydraulic driven generator. • Exact location of reel shall be determined by contacting the NJTA Inspector prior to mounting. 		

**SPECIFICATIONS: LB-SP
LIGHTBAR AND SWITCH PANEL**

BIDDER'S INSTRUCTIONS

IT SHALL BE THE BIDDER'S RESPONSIBILITY TO CAREFULLY EXAMINE EACH ITEM OF THE SPECIFICATION. BIDDERS MUST INDICATE WHETHER THEY COMPLY OR NON-COMPLY FOR EACH LINE ITEM IN THE SPECIFICATION. FAILURE TO PROVIDE A COMPLETED BID MAY CAUSE REJECTION OF BID. ALL NON-COMPLY RESPONSES AND/OR BIDDERS PROPOSED "APPROVED EQUIVALENTS" MUST BE FULLY EXPLAINED ON EXCEPTION FORM, NOTING SECTION AND ITEM. FAILURE TO EXPLAIN NON-COMPLY RESPONSES OR FAILURE TO SUPPLY DETAILED LITERATURE/BROCHURES ON THE BIDDERS PROPOSED "APPROVED EQUIVALENTS" MAY CAUSE REJECTION OF BID. WHERE "MINIMUM/MAXIMUM" IS SPECIFIED, BIDDERS MUST PROPOSE AT LEAST THE MINIMUM/MAXIMUM SIZES OR THE BID MAY BE REJECTED.

	COMPLY	
LIGHTBAR:	YES	NO
A. The lightbar shall be a Whelen Engineering Delta Model D12HA50NJTA or approved equivalent.		
B. Furnish and install a two-level, aerodynamically designed all-light vehicular lightbar and mounting hardware for all trucks specified in this bid package.		
C. The lightbar shall consist of primary warning in the upper section and secondary warning in the lower section.		
D. The lightbar shall be certified as meeting SAE J845 Class I warning light specifications.		
E. Dimensions: <ul style="list-style-type: none"> Length.....49¾" Width.....16¾" Height.....5½" Weight.....48 lbs. 		
PRIMARY WARNING (UPPER LEVEL):		
A. Two (2) outboard independent motor driven rotating light assemblies. Each rotating reflector shall produce 175 minimum flashes per minute. The candlepower of each rotating light shall be 72,000 cp.		
B. Two (2) inboard independent motor driven rotating light assemblies shall feature a double ball bearing design for quiet, long life and superior performance. Each shall produce a 175 minimum flashes per minute. The candlepower of each rotating light shall be 72,000 cp.		
C. Two (2) diamond mirrors located between each of the two (2) rotators shall increase the flash rate to 700 minimum flashes per minute to the front and rear of the lightbar.		
D. One (1) independent center motor driven rotating light assembly		

producing 175 minimum flashes per minute shall be the same quality design as the outboard rotator listed above. Candlepower output shall be 72,000 cp.		
E. Two (2) diagonal mirrors shall be mounted across from the center rotating light assembly.		
F. All primary warning light assemblies shall use 55 watt HI halogen lamps.		
G. The lightbar shall provide a true 360° unobstructed warning signal.		
H. The primary warning lights shall not be obstructed in any way by the takedown, flashing, alley or any other secondary lights.		
I. Secondary light shall remain an integral part of the lightbar.		
SECONDARY WARNING (LOWER LEVEL):		
A. Two (2) front and four (4) rear flashing AMBER GEN 3.5 Super-LED assemblies. Each assembly shall consist of six (6) {3 over 3 staggered design} Gen 3.5 Super-LED's and clear TIR and outer lenses. The flashing lights shall produce a signal alert alternating flash pattern using an electronically controlled flasher.		
B. Two (2) forward facing take-down (steady burning clear) lights using 35 watt halogen lamps.		
C. Two (2) internal alley lights located on each end of the lightbar using 35 watt halogen lamps.		
DOMES CONFIGURATIONS:		
A. An amber colored single piece polycarbonate primary dome shall be provided for each side and center section of the lightbar with each piece separated by a divider.		
B. The primary dome shall be textured inside the top of each dome to improve daylight warning.		
C. This textured screen shall be an integral part of the primary dome.		
MOUNTING BRACKETS:		
A. A hook-on mounting bracket with stainless steel hardware shall be included (permanent mount is also acceptable but must be specified by the vendor in the bid package).		
B. In the event a safety rack is installed behind the cab (and safety rack extends 3½" higher than cab roof), the bottom of the lightbar must be at least 1" higher than the safety rack to create an unobstructed view of the lightbar from the rear of the vehicle. This rise is to be achieved using a Whelen model # RMK8H light bar mount or approved equivalent.		
ELECTRICAL:		
A. The power requirements shall not exceed the following: <ul style="list-style-type: none"> • Primary Lights 5 amps per assembly • Alternating Flashing Lights .5 amps per assembly • Alley Lights/Take-Down Lights 3.9 amps each 		
SWITCH CONTROL PANEL:		
A. The switch control panel shall be a Whelen Model PCCHD2 or an approved equivalent.		
B. Switch control panel shall be designed to accommodate six (6) circuit breaker rocker switches with legend inserts above each switch for various		

lightbar devices and back lighting.		
C. The panel dimensions shall be approximately 2 ³ / ₈ " high x 6" wide x 5 ³ / ₈ " deep.		
D. The switch assembly shall be supplied with seventy-two (72) legend tabs to choose from (switches shall be rated at a minimum of 25 amps @ 12 V.D.C.). Switch Designation/Function: <ul style="list-style-type: none"> • Switch one..... Rotating Lights • Switch two..... Front/Rear Light Bar Flashing LED's • Switch three.....Take-Down Lights • Switch four.....Left Alley Light • Switch five.....Right Alley Light • Switch six.....Blank 		
E. A 40 amp circuit breaker switch shall protect the rotating light circuit (switch one). The remaining circuits (switches two thru six) shall be a minimum of 25 amp circuit/breaker type switches.		
F. The switch module shall be designed to be installed on a vehicle mounting surface. The switch module shall be located so the vehicle and controls can be operated safely under all driving conditions.		
WIRING:		
A. Use 14 and 16 AWG wire and connect leads to the applicable lightbar component.		
B. Use 8 AWG wire and connect the ground lead to a reliable vehicle ground. One (1) master ground wire shall be used. All switching shall be done via 14 and 16 AWG wires.		
C. Use 18 AWG wire and connect the back lighting circuit to the lead vehicle instrument light circuit.		
D. The power for the switch module panel shall be obtained from a vehicle power distribution center or by an 80 amp master circuit breaker. The center or master circuit breaker shall be provided and installed by vendor. All circuits shall be protected by fuses or circuit breakers. Install the power distribution center or master circuit breaker as close to the battery (ies) as possible. Use 8 AWG wire and connect the power lead to the master circuit breaker or power distribution center.		
E. Provide a wiring diagram for both lightbar and switch panel showing all components with part numbers.		
F. Holes drilled through the firewall and roof for wiring and mounting brackets shall have a grommet or similar device placed in the hole to protect the wires and brackets against damage and water leakage.		
G. The outer cab roof holes shall be sealed with silicone sealant to prevent water leakage.		
REAR STROBES:		
A. The rear strobe type light shall be a Whelen Model VTX609A Vertex Super LED Light or approved equivalent.		

SPECIFICATIONS: 7PTC

7-POLE ROUND PIN TRAILER CONNECTORS ON TRUCKS AND TRAILERS

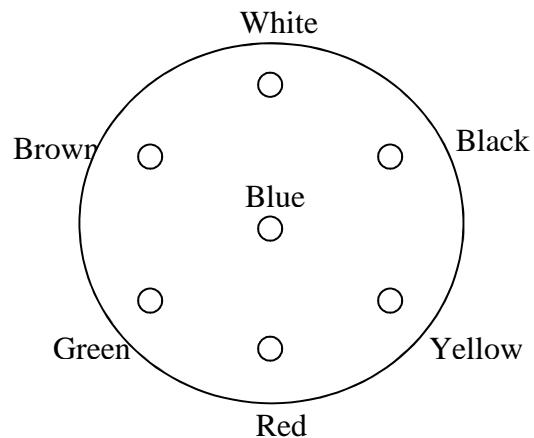
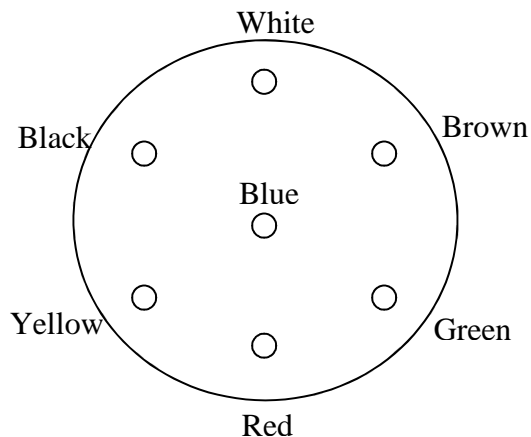
CONNECTOR MARKING COLOR

APPLICATION

WHITE.....	GROUND
BLACK.....	TAIL LIGHT
BROWN.....	TAIL LIGHT
YELLOW.....	LEFT TURN SIGNAL
GREEN.....	RIGHT TURN SIGNAL
RED.....	ELECTRIC BRAKE
BLUE.....	12-VOLT BATTERY- WITH 30-AMP AUTOMATIC BIMETAL THERMAL RESET CIRCUIT PROTECTION.

SOCKET MARKINGS

PLUG MARKINGS



FAILURE TO COMPLETE ALL AREAS MAY RESULT IN REJECTION OF BID
UNIT INFORMATION FORM

(Must be submitted by vendor with bid documents)

TRUCK CHASSIS:

YEAR: _____ MAKE: _____ MODEL: _____

ENGINE MAKE: _____

MODEL: _____ CID: _____ HP: _____ @ _____ RPM

TRANSMISSION MAKE: _____

MODEL: _____

SERVICING AGENCY: _____

LOCATED AT: _____

TELEPHONE #: _____

CONTACT: _____

Name & Title

AERIAL UNIT:

YEAR: _____ MAKE _____ MODEL _____

INSTALLER: _____

SERVICING AGENCY: _____

LOCATED AT: _____

TELEPHONE #: _____

CONTACT: _____

Name & Title

BODY:

YEAR:_____MAKE_____MODEL_____

INSTALLER: _____

SERVICING AGENCY:_____

LOCATED AT:_____

TELEPHONE #:_____

CONTACT:_____

Name & Title

GENERATOR:

YEAR:_____MAKE_____MODEL_____

WATTS:_____

INSTALLER: _____

SERVICING AGENCY:_____

LOCATED AT:_____

TELEPHONE #:_____

CONTACT:_____

Name & Title

COMPARTMENT ROPE LIGHTING:

YEAR:_____MAKE_____MODEL_____

INSTALLER: _____

SERVICING AGENCY:_____

LOCATED AT:_____

TELEPHONE #:_____

CONTACT:_____

Name & Title

ROTATING LIGHTS:

YEAR:_____MAKE_____MODEL_____

INSTALLER: _____

SERVICING AGENCY:_____

LOCATED AT:_____

TELEPHONE #:_____

CONTACT:_____

Name & Title

REAR WARNING LIGHTS:

YEAR:_____MAKE_____MODEL_____

INSTALLER: _____

SERVICING AGENCY:_____

LOCATED AT:_____

TELEPHONE #:_____

CONTACT:_____

Name & Title

WORK LIGHTS:

YEAR:_____MAKE_____MODEL_____

INSTALLER: _____

SERVICING AGENCY:_____

LOCATED AT:_____

TELEPHONE #:_____

CONTACT:_____

Name & Title

RUST PROOFING:

MATERIAL_____

INSTALLER: _____

SERVICING AGENCY:_____

LOCATED AT:_____

TELEPHONE #:_____

CONTACT:_____

Name & Title

[illegible]

Date _____